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XYGStudy 5inch HDMI AMOLED

User Manual: 5-inch HDMI Capacitive Touch AMOLED Display

Model: 5inch HDMI AMOLED | Brand: XYGStudy

1. Introduction

This manual provides detailed instructions for the 5-inch HDMI Capacitive Touch AMOLED Display. This display features a 960x544 resolution, HDMI connectivity, and a fully laminated toughened glass cover. It is designed for use with various devices, including Raspberry Pi, Jetson Nano, and standard PCs.
Key features include:

- 5-inch Capacitive Touch AMOLED Display with 960×544 resolution.
- HDMI interface for video input.
- Fully laminated toughened glass cover for enhanced durability and dust protection.
- Supports 5-points touch (up to 10 points depending on OS) with up to 6H hardness.
- Driver-free support for Raspbian (5-points touch), Ubuntu / Kali / WIN10 IoT (single point touch), and Retropie on Raspberry Pi.
- Driver-free support for Ubuntu (single point touch) on Jetson Nano.
- Driver-free support for Windows 10 / 8.1 / 8 / 7 (5-points touch) on PC.

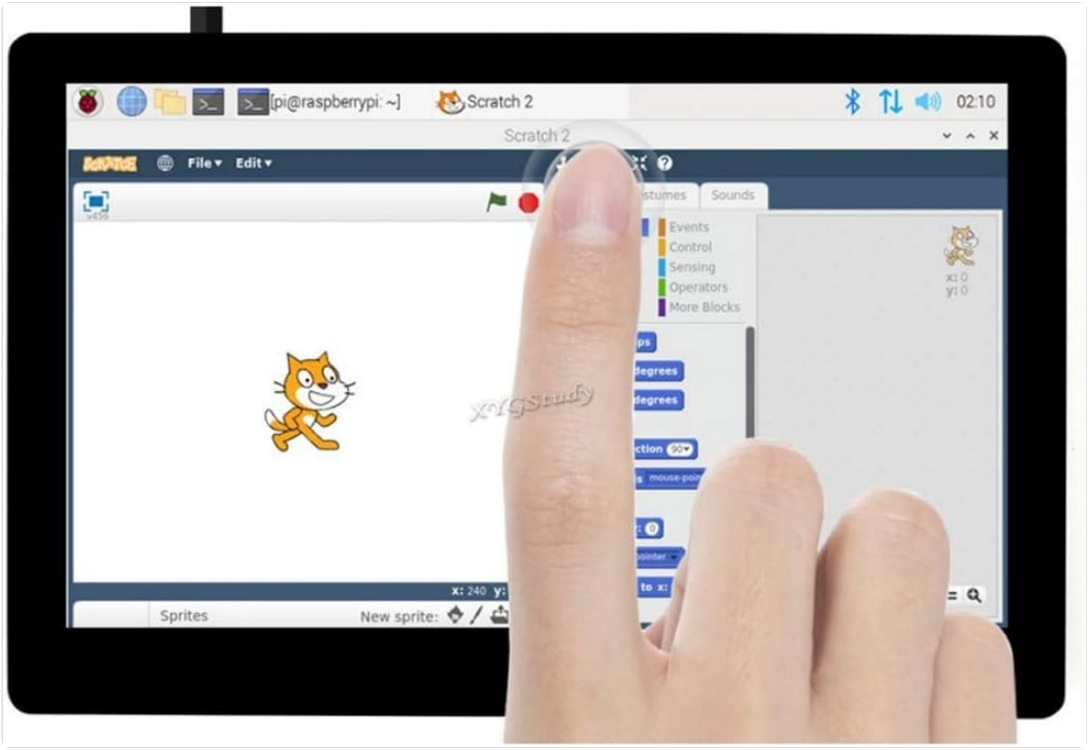


Figure 1: Front view of the 5-inch HDMI Capacitive Touch AMOLED Display.

2. Package Contents

Verify that all items listed below are included in your package:

- 5inch HDMI AMOLED Display x1
- HDMI cable x1
- USB type A plug to micro B plug cable x1
- HDMI adapter (B) x1
- USB adapter (B) x1
- HDMI to Micro HDMI adapter (C) x1
- USB adapter (C) x1
- Screws pack x1

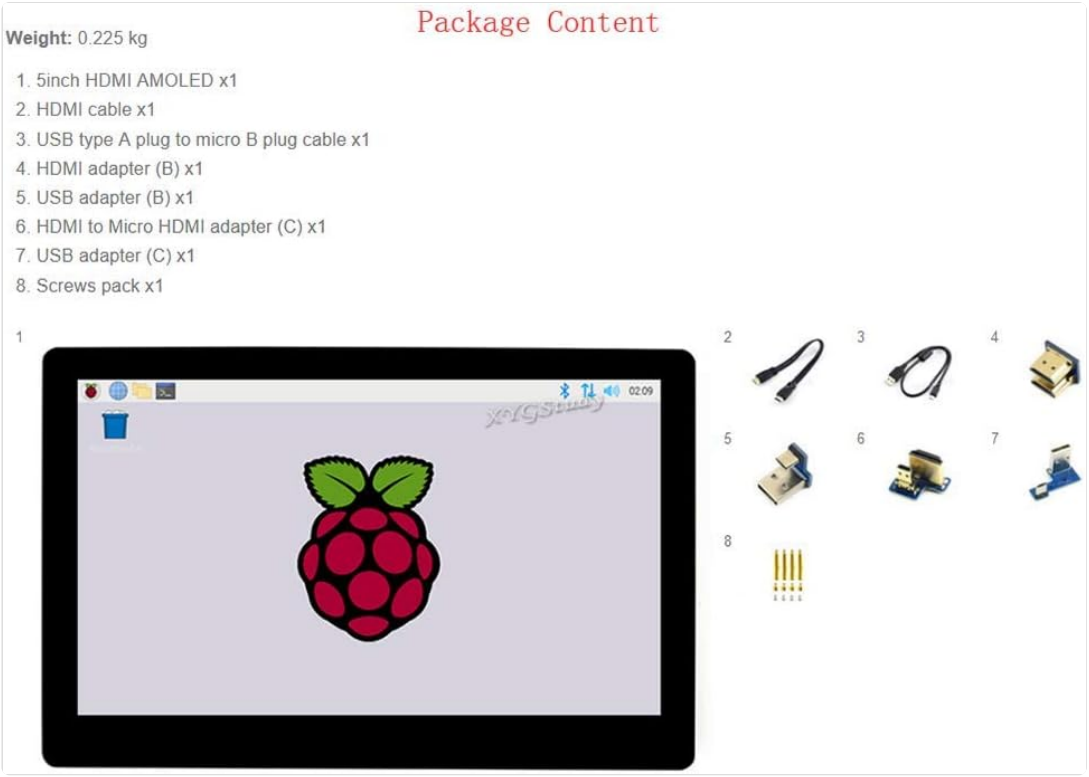


Figure 2: Illustration of the display and included accessories.

3. Specifications

Feature	Detail
Display Size	5 inches
Resolution	960×544
Display Panel	AMOLED (High Contrast, Wide Color Gamut)
Touch Type	Capacitive, 5-points touch (up to 10 points depending on OS)
Touch Panel Tech	Fully Laminated, Toughened Glass Cover (6H hardness)
Display Interface	HDMI
Touch Port	USB
Audio Output	3.5mm Jack
Viewing Angle	>170°
Dimensions	123.54 x 79.92 x 10.55 mm (approx.)
Weight	9.9 ounces (0.28 kg)

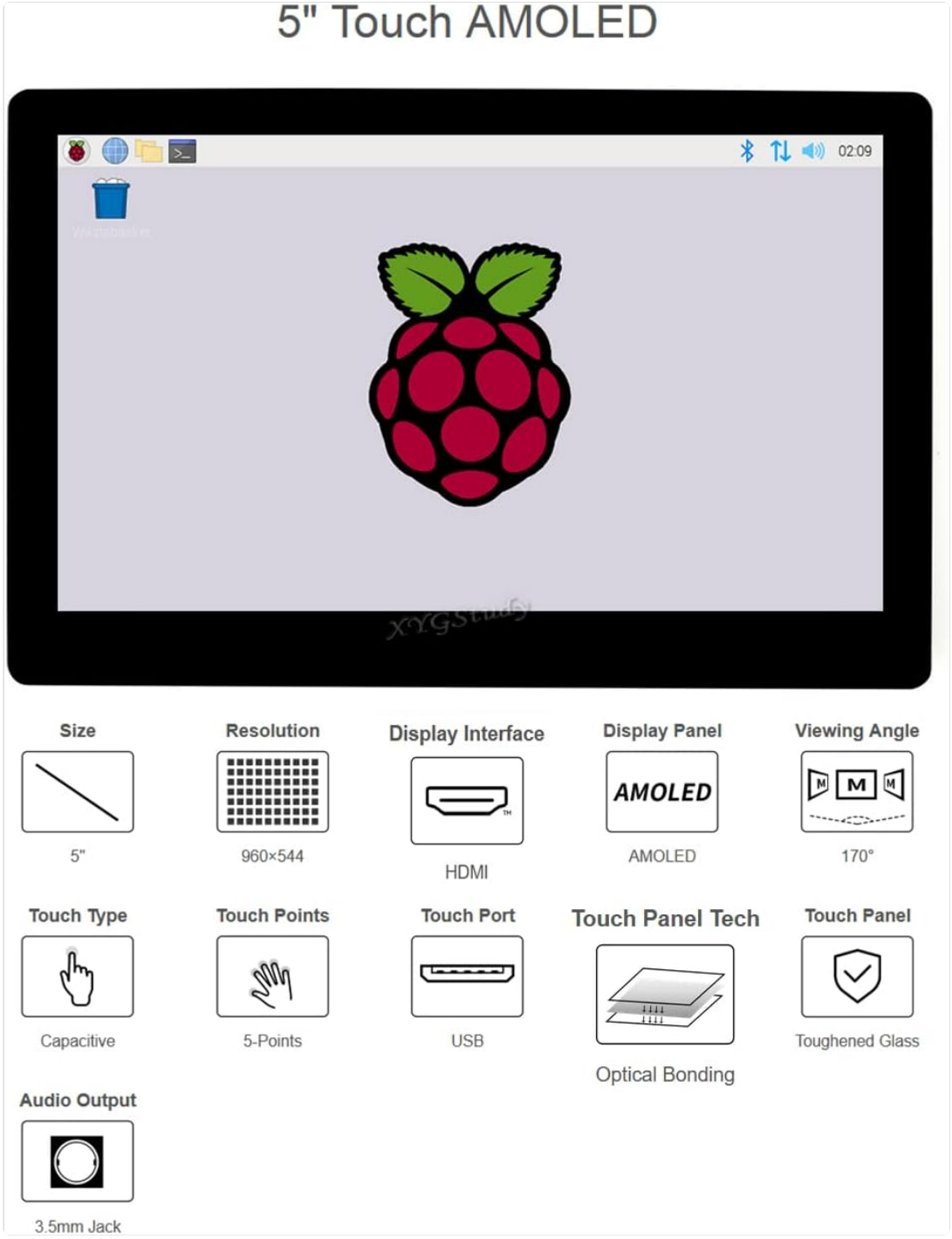


Figure 3: Key features and specifications overview.

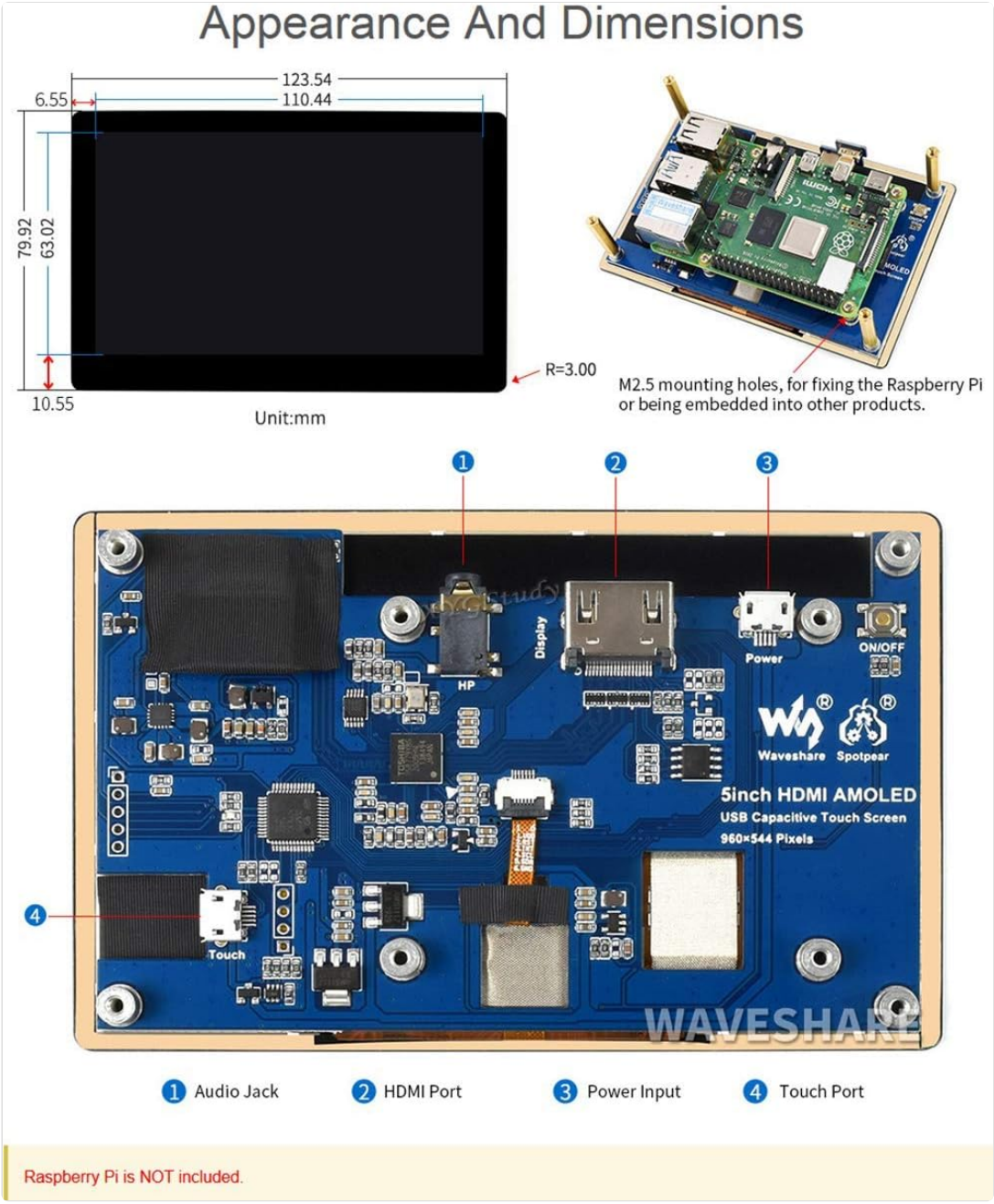


Figure 4: Detailed dimensions and port identification.

1. Audio Jack
2. HDMI Port
3. Power Input
4. Touch Port

4. Setup Instructions

Follow these steps to set up your 5-inch HDMI Capacitive Touch AMOLED Display:

1. **Connect HDMI:** Use the provided HDMI cable to connect the display's HDMI port to your host device (Raspberry Pi, Jetson Nano, PC). Use the appropriate HDMI adapter if necessary (HDMI adapter (B) or HDMI to Micro HDMI adapter (C)).
2. **Connect USB for Touch:** Connect the display's USB Touch Port to a USB port on your host device using the provided USB type A to micro B cable. This connection enables the touch functionality.

3. **Power Connection:** Connect the display's Power Input to a suitable 5V power source using the provided USB cable. Ensure the power source can provide sufficient current (e.g., 3A for Raspberry Pi 4, 2.5A for Raspberry Pi Zero W, 4A for Jetson Nano).
4. **Audio (Optional):** If audio output is desired, connect external speakers or headphones to the 3.5mm Audio Jack on the display.
5. **Mounting (Optional):** The display includes M2.5 mounting holes for integration into custom enclosures or projects. Use the provided screws pack for secure mounting.



Figure 5: Rear view of the display with port locations.

5. Operating Instructions

5.1. Device Compatibility and Driver Information

- **Raspberry Pi:** Supports Raspbian (5-points touch, driver free), Ubuntu / Kali / WIN10 IoT (single point touch, driver free), and Retropie (driver free). Compatible with all versions of Raspberry Pi.
- **Jetson Nano:** Supports Ubuntu (single point touch, driver free).
- **PC:** Supports Windows 10 / 8.1 / 8 / 7 (5-points touch, driver free).

5.2. Touch Control

The display features a capacitive touch panel. For optimal performance:

- Ensure the USB touch cable is securely connected to your host device.
- The touch functionality is driver-free for supported operating systems.
- The display supports up to 10 points of touch, depending on the operating system and application.

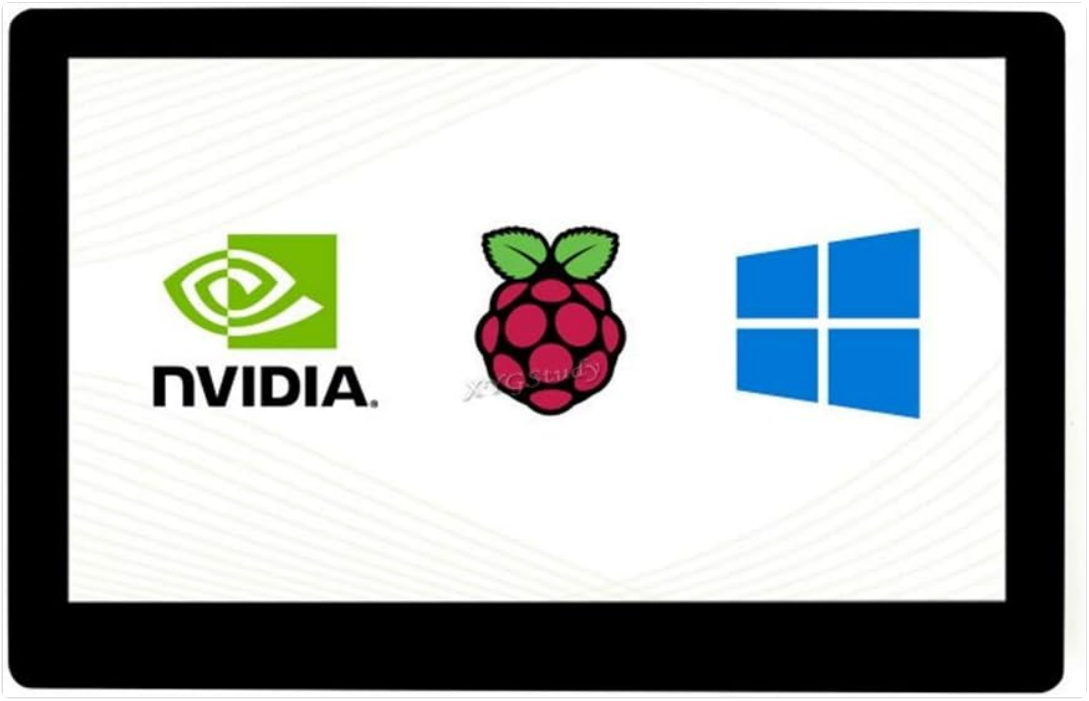


Figure 6: Demonstrating capacitive touch functionality.

5.3. Connection Examples

The display can be connected to various devices as shown in the examples below:



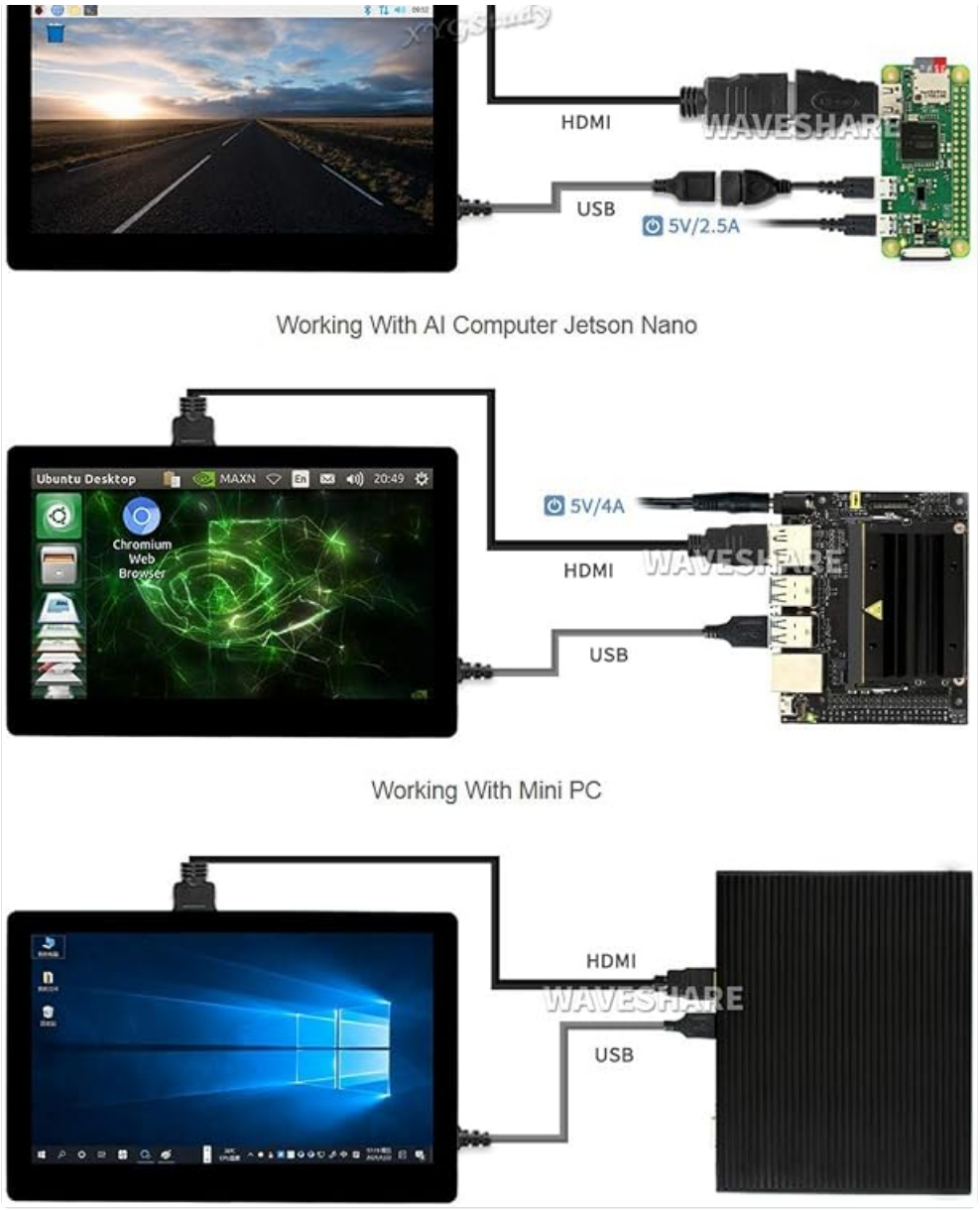


Figure 7: Visual guide for connecting the display to different host devices.

- **Working with Raspberry Pi 4:** Connect HDMI and USB for touch. Power via 5V/3A.
- **Working with Raspberry Pi 3B+:** Connect HDMI and USB for touch. Power via 5V/3A.
- **Working with Raspberry Pi Zero W:** Requires additional mini HDMI adapter and USB cable. Power via 5V/2.5A.
- **Working with AI Computer Jetson Nano:** Connect HDMI and USB for touch. Power via 5V/4A.
- **Working with Mini PC:** Connect HDMI and USB for touch.

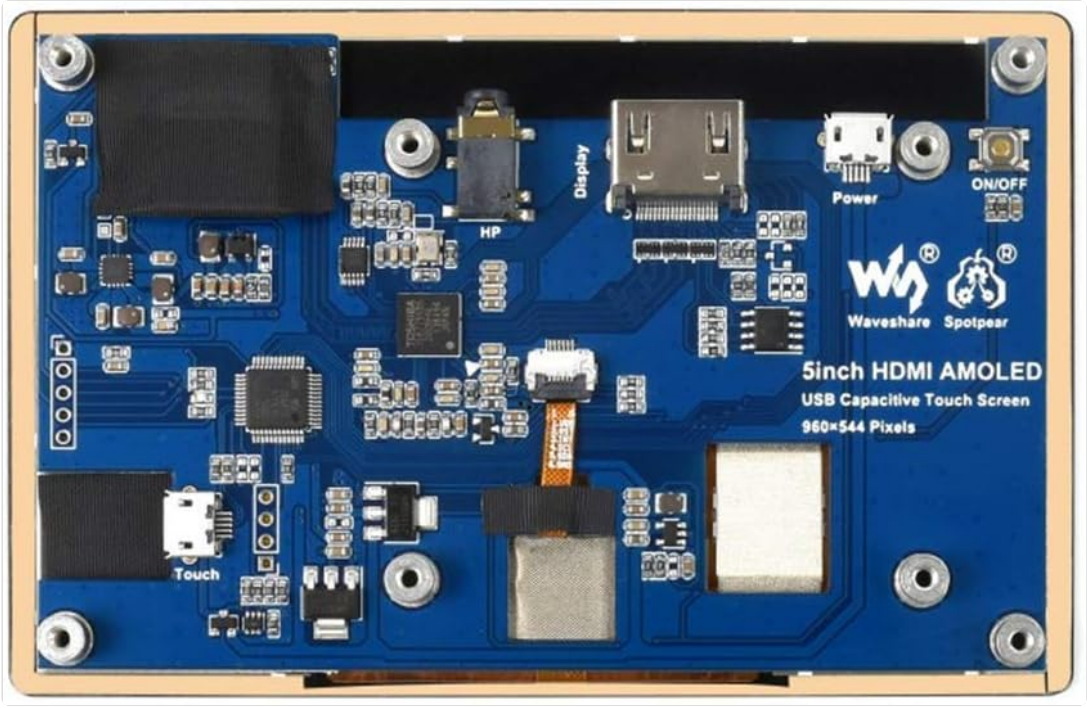


Figure 8: Display compatibility with various platforms.

6. Maintenance

To ensure the longevity and optimal performance of your display, follow these maintenance guidelines:

- **Cleaning:** Use a soft, lint-free cloth to gently wipe the screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid abrasive materials or harsh chemicals.
- **Handling:** Handle the display by its edges. Avoid applying excessive pressure to the screen.
- **Storage:** When not in use, store the display in a cool, dry place away from direct sunlight and extreme temperatures.
- **Protection:** The toughened glass cover provides protection, but avoid dropping the display or exposing it to sharp objects to prevent scratches or damage.

7. Troubleshooting

If you encounter issues with your display, refer to the following common problems and solutions:

- **No Display/Black Screen:**
  - Ensure the HDMI cable is securely connected to both the display and the host device.
  - Verify that the display is receiving adequate power. Check the power cable connection and the power supply's output.
  - Confirm that your host device's video output is enabled and configured correctly for the display's resolution (960x544).
  - If using Raspberry Pi, ensure the config.txt file is correctly configured for the display.
- **Touch Functionality Not Working:**
  - Check that the USB touch cable is firmly connected to both the display and the host device.
  - Confirm that your operating system is supported and that no additional drivers are required (as per Section 5.1).
  - Restart your host device and the display.

- **Flickering or Distorted Image:**
  - Ensure the HDMI cable is not damaged and is properly seated.
  - Check for electromagnetic interference from other devices.
  - Verify the resolution and refresh rate settings on your host device match the display's capabilities.

8. Warranty and Support

For warranty information or technical support, please contact XYGStudy customer service. Refer to your purchase documentation for specific warranty terms and contact details.
As mentioned in the product description, for more detailed user guides or specific inquiries, you may send a message via the platform where the product was purchased.

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